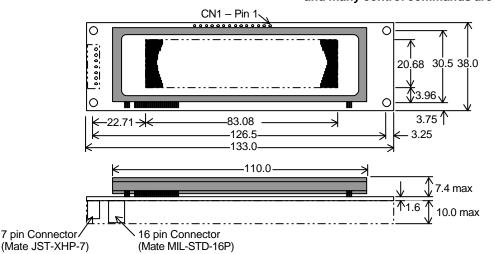
Dot Graphic VFD Module

GU256x64C-3900

- □ 256x64 Dot Graphic
- □ 5V Supply
- □ High Brightness Blue Green Display
- □ Operating Temp -40°C to +85°C
- ☐ High Speed 8 Bit Parallel Interface
- □ Asynchronous Serial Interface

The module includes the Vacuum Fluorescent Display glass, VF drivers and micro-controller ICs with refresh RAM, character generator and interface logic. The high speed 8 bit parallel interface is 5V TTL/CMOS compatible suitable for connection to a host CPU bus. The asynchronous serial interface accepts baud rates up to 38400, none parity. User defined characters and many control commands are available.



Dimensions in mm & subject to tolerances.

Mounting holes 3.5mm dia.

ELECTRICAL SPECIFICATION

Parameter	Symbol	Value	Condition	
Power Supply Voltage	VCC	5.0VDC +/- 5%	GND=0V	
Power Supply Current	ICC	430mADC typ.	Vcc=5V	
RS232 Serial High Input	VIH	3.0VDC min.	VCC=5V	
RS232 Serial Low Input	VIL	-3.0VDC max.	VCC=5V	
RS232 Serial High Output	VOH	5.0VDC min.	IOH = -2mA	
RS232 Serial Low Output	VOL	-5.0VDC max.	IOL =4mA	
Logic High Input	VIH	0.8VDC min.	VCC=5V	
Logic Low Input	VIL	0.2VDC max.	VCC=5V	
Logic High Output	VOH	3.5VDC min.	IOH = -10uA	
Logic Low Output	VOL	0.6VDC max.	IOL =4mA	

The power on rise time should be less than 100ms. The inrush current at power on can be 2 x ICC.

SOFTWARE COMMANDS

Command Name	Hex
Back Space	08
Horizontal Tab	09
Line Feed	0A
Cursor Home*	0B
Clear Display	0C
Carriage Return	0D
Escape	1B + ➤
Specify Download Character	+25
Download Char. Definition	+26
Delete Download Character	+3F
Initialize Display	+40
Define International Font	+52
Define Char. Code Type	+74
Overwrite Mode	1F 01
Vertical Scroll Mode	1F 02
Horizontal Scroll Mode	1F 03
Cursor Set	1F 24
RAM Macro Processing	1F 3A
Display Brightness	1F 58
Macro Execution	1F 5E
Enable/Disable Reverse Disply	1F 72
Horizontal Scroll Speed	1F 73
Write Mixture Display Mode	1F 77
Dot Pattern Draw	1F 28 64
User Set Up Mode Start	1F 28 65
I/O Port Control	1F 28 70

See full data sheet for additional commands.

RS232 INTERFACE (CN3)

D6

D5

D4

Pin			Sig
	1	F	RXD
	2	[OTR
	3		DSR
4		TXD	
5		NC	
6		VCC	
7		GND	
PARALLEL IN		NTERFAC	CE (CN2)
Pin	Sig	Pin	Sig

10

11

12

/WR

GND

READY

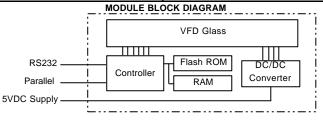
5	D3	13	GND
6	D2	14	GND
7	D1	15	VCC
8	D0	16	VCC
I/O P	ORT CO	NNECTO	R. (CN1)
Pin	Sig	Pin	Sig
	Sig Bit 7	Pin 8	Sig Bit 0
Pin			
Pin 1	Bit 7	8	Bit 0
Pin 1 2	Bit 7 Bit 6	8 9	Bit 0 Bit 3

ON		ום	U	וום	
OFF		Bit 3	9	Bit 6	2
ON		Bit 2	10	Bit 5	3
] ;	Bit 1	11	Bit 4	4
BAUD R	1	Bit 0	12	Bit 3	5
		VCC	13	Bit 2	6
		GND	14	Bit 1	7
	-				

Subject to change without notice. IUK Doc Ref:04465 Iss:1 7Oct 03

OPTICAL and ENVIRONMENTAL SPECIFICATIONS

0		
Parameter	Value	
Display Area (XxY mm)	83.08 x 20.68	
Dot Size/Pitch (XxY mm)	0.2 x 0.2 / 0.325 x 0.325	
Luminance	500 cd/m ² Typ.	
Colour of Illumination	Blue-Green (Filter for colours)	
Operating Temperature	-40°C to +85°C	
Storage Temperature	-40°C to +85°C	
Operating Humidity (non condensing)	20 to 80% RH @ 25°C	



DISPLAY ADDRESS SELECT				
SW1	SW2	SW3	SW4	Address
OFF	OFF	OFF	OFF	00H
ON	OFF	OFF	OFF	01H
OFF	ON	OFF	OFF	02H
ON	ON	OFF	OFF	03H
OFF	OFF	ON	OFF	04H
ON	OFF	ON	OFF	05H
OFF	ON	ON	OFF	06H
ON	ON	ON	OFF	07H
OFF	OFF	OFF	ON	08H
ON	OFF	OFF	ON	09H
OFF	ON	OFF	ON	0AH
ON	ON	OFF	ON	0BH
OFF	OFF	ON	ON	0CH
ON	OFF	ON	ON	0DH
OFF	ON	ON	ON	0EH
ON	ON	ON	ON	0FH

BAUD RATE SELECT	
SW5	Baud Rate
OFF	38,400
ON	19.200

COMMAND MODE SELECT
SW6 Mode
OFF Normal command
ON Graphic DMA

OPERATING MODE SELECT		
SW7	Mode	
OFF	Normal Operation	
ON	Memory Re-write	

PROTOCOL MODE SELECT		
SW8	Mode	
OFF	Direct Mode	
ON	Packet Mode	

CONTACT

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